

PHASE II

GYPSY MOTH LARVAL / PHENOLOGY SURVEY WORKSHEET

Date	County	Observer Name	Township	Section	Block	Site #

LARVAL DEVELOPMENT (Count 100 LARVAE, write INSTAR number in the squares.)

Number of LARVAE in each INSTAR

1st	2nd	3rd	4th	5th	6th

PHENOLOGY Indicate stage leaf development generally observed at site. Use stage designation for those species present as given by Dr. Witter phenology. (SEE BACK)

Aspen	Red Oak	White Oak

WEEKLY: Mail this form along with summary sheet to the MDA-Lansing Office

ASPEN

Michigan Oak / Aspen Phenological Stages

<u>STAGE</u>	<u>FOLIAR CONDITIONS</u>
I	<u>Winter Condition</u> Buds tight-bud firm when pressed between finger tips.
II	<u>Buds Swelled With Not Expansion Of Bud Scales</u> Buds soft when pressed between finger tips.
III	<u>Buds Expanding</u> Scales show distinct separation with distance between scales not more than 2 mm.
IV	<u>Buds Showing Scales Separation Greater Than 2mm</u> ASPENS have a tip of leaf material showing beyond the scales; WHITE OAK may have a red tip of leaf material at this stage; OAKS typically begin to swell at the tip.
V	<u>Buds Showing Leaf Material At The Tip</u> ASPENS have green tips greater than 2 of the bud length; OAKS have red tips comprising more than 2 of the total bud length; WHITE OAK have red tips that is distinctly open exposing leaf material.
VI	<u>Leaves Exposed Beyond Bud Scales</u> Foliage is rolled (i.e. aspens) or curled (i.e. oaks); leaves beginning to unfurl but not flattened.
VII	<u>Leaves Fully Exposed and Flattened</u> (leaf blade may be wrinkled) ASPEN (big tooth) in this stage is covered with a dense mat of white trichomes; trembling ASPEN leaves can be bronze-colored. OAKS typically are covered with a dense mat of red trichomes.
VIII	<u>Leaves Flattened and Expanding</u> Leaves soft to touch; Trichomes density rapidly diminishing; Leaves starting to turn green.
IX	<u>Leaves Flattened and Expanding</u> Leaf blade firm to touch; Leaves green but color is not yet dark green.
X	<u>Leaves Fully Expanded and Tough</u> Leaves have the dark green color of mature leaves; Leaf blade is easily broken when leaf is bent.

OAK

